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WE CLAIM:

- $1. \hspace{1.5cm} \hbox{An isolated DNA molecule which is polymorphic for the alpha $(1,2)$} fucosyltransferase gene 1 in swine.$
- An isolated DNA molecule having a nucleotide sequence in accordance with FIG. 1.
 - The isolated DNA molecule of claim 2 wherein adenine is in nucleotide position 307 instead of guanine.
 - An isolated DNA molecule which is complementary to the nucleotide sequence of claim 2.
- The isolated DNA molecule of claim 2 with a substitution of adenine
 for guanine in nucleotide position 857.
 - An isolated DNA molecule according to claim 2 with a threonine in nucleotide position 229.
- A portion of the isolated DNA molecule of claim 1 or 2, said portion including the nucleotide sequence that distinguishes *E. coli* colonization resistant from sensitive swine.